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NATIONAL BUREAU OF STANDARDS
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LC883)

S I M P L I F I E D P R A C T I C E R E C O M M E N D A T I O N S

Alphabetical List Revised to April, 1948

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¹The procedure is explained in detail in Simplified Practice, Its Purpose and Application, Letter Circular LC-590, April 15, 1940, National Bureau of Standards.

²Numbers indicated by an asterisk (*) are available, at present, only in mimeographed form. They can be obtained, free of charge, from the Commodity Standards Division, National Bureau of Standards, Washington 25, D. C.

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

RECEIVED JAN 10 1964

FROM THE UNIVERSITY OF CHICAGO

TO THE DIRECTOR, NATIONAL BUREAU OF STANDARDS
WASHINGTON, D. C. 20535
FROM THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5708 S. UNIVERSITY AVE.
CHICAGO, ILL. 60637

RE: RESEARCH REPORT NO. 1
SUBJECT: THE EFFECT OF TEMPERATURE ON THE RATE OF
REACTION OF HYDROGEN PEROXIDE WITH
FERROUS SULFATE

BY: JOHN H. HARRIS
AND
JOHN E. HARRIS

ABSTRACT: The rate of reaction of hydrogen peroxide with ferrous sulfate was studied at various temperatures. The reaction was found to be first order with respect to the concentration of hydrogen peroxide and first order with respect to the concentration of ferrous sulfate. The rate constant, k , was determined at various temperatures and the activation energy, E_a , was calculated from the Arrhenius plot. The activation energy was found to be 14.5 kcal/mole.

INTRODUCTION: The reaction of hydrogen peroxide with ferrous sulfate is a well-known reaction. It is often used as a test for the presence of ferrous ions. The reaction is also of interest in the study of the kinetics of redox reactions. In this report, the effect of temperature on the rate of reaction of hydrogen peroxide with ferrous sulfate is studied.

EXPERIMENTAL: The reaction was studied at various temperatures. The concentration of hydrogen peroxide was varied, and the concentration of ferrous sulfate was kept constant. The rate of reaction was determined by measuring the change in the concentration of ferrous sulfate over time. The rate constant, k , was determined from the slope of the plot of $\ln k$ versus $1/T$.

RESULTS AND DISCUSSION: The rate constant, k , was found to increase with increasing temperature. The activation energy, E_a , was calculated from the Arrhenius plot and was found to be 14.5 kcal/mole. This value is in good agreement with the value reported in the literature.

TITLE	S.P.R. No.	TITLE	S.P.R. No.
Abrasive grain, sizes of.....R118-45		Board, corrugated, single-faced	
Abrasive products, coated..10¢. 89-46		(in rolls), (for department and	
Adhesive plaster..... 85-47		specialty store use)..... R177-41	
Aggregates, coarse (crushed		Board, insulating, structural	
stone, gravel and slag)..... 163-39		(wood, or other vegetable fiber). 179-46	
Air compressors for automotive		Bobbins, filling cop winder;	
service stations and garages. 202-43		hole sizes for; and basic dimen-	
Air conditioning and warm-air		sions for cones for warp and	
heating; pipes, ducts, and		knitting yarns..... 152-34	
fittings for.....10¢. 207-45		Boilers, range; expansion and	
Art materials (crayons, chalks,		solar tanks; ferrous..... 8-47	
etc.) for school use (types,		Boilers, range; nonferrous..... 181-41	
sizes, packaging, colors..... 192-45		Boilers, steel, heating;	
Asbestos paper and asbestos		horizontal firebox..... 157-37	
millboard..... 19-37		Bolts, carriage, machine, and	
Asphalt..... 4-36		lag; packaging of..... 60-43	
Asphalt roll roofing and		Bolts and nuts (stock-production	
asphalt and tar-saturated-		sizes).....10¢. 169-45	
felt products..... 213-45		Bolts, plow..... 23-45	
Asphalt tile..... 225-47		Books, composition..... 84-28	
Automatic regulating valves.. 219-46		Bottles, carbonated beverage.... 123-43	
Automobile brake lining.....* 66		Bottles, milk and cream10¢. 10-47	
Axes, forged.....*158-42		Box board, thicknesses of..... 44-36	
Bags, glassine..... 107-31		Boxes, corrugated fiber (for	
Bags, grocers', paper..... 42-43		department and specialty	
Bags, notion and millinery;		store use)..... 128-41	
paper (for department and		Boxes, corrugated and solid	
specialty store use)..... 129-41		fiber; for canned fruits and	
Band saws, metal cutting; hard		vegetables..... 146-41	
edge, flexible back..... 214-45		Boxes, folding, paper (for	
Bank checks, notes, drafts, and		department and specialty	
similar instruments..... 50		store use)..... 127-41	
Barrels and drums, steel..... 20-28		Boxes, folding, stock; for	
Bars, steel, and bar-sized		garments and dry-cleaning..... 172-38	
shapes; carbon, hot-		Boxes, folding, stock; for	
rolled.....10¢. 222-46		millinery..... 173-38	
Bars, steel; color code for		Boxes, folding, one-pound; for	
marking..... 166-37		coffee..... 64-30	
Bars, steel, reinforcing..... 26-42		Boxes, paper; for toiletries	
Bars, steel, spiral, rein-		and cosmetics..... 200-43	
forcing..... 53-32		Boxes, set-up, paper, (for de-	
Batteries, flashlight;		partment and specialty store	
packaging of..... 104-30		use)..... 126-41	
Bearings, roller, taper..... 67-36		Boxes, wire-bound; rotary-cut	
Beds, hospital..... 24-37		lumber stock for..... 59	
Bedsteads, springs, and		Boxes, wooden; for canned	
mattresses..... 2-32		fruits and vegetables..... 171-38	
Blackboard, composition..... 75-29		Brass or bronze valves (gate,	
Blackboard slate..... 15-35		globe, angle, and check)..... 183-46	
Blades, hack-saw.....10¢. 90-46		Brick, common; and rough-and	
Blankets, bed (sizes)..... 11-36		smooth-face..... 7	
Board, binders'..... 81-28		Brick, paving, vitrified..... 1-40	
Board, box; thicknesses of..... 44-36		Brick, sand-lime..... 38-37	

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TITLE	S.P.R. No.	TITLE	S.P.R. No.
Bronze pop safety valves, and bronze, iron and steel relief valves.....R204-44		Chinaware, cafeteria and restaurant.....R 33	
Brushes, calcimine; block sizes for..... 121-31		Chinaware, dining car..... 39	
Brushes, carbon, graphite, and metal-graphite; and brush shunts..... 56-35		Chinaware, hospital..... 40	
Brushes, counter, window, radiator..... 167-37		Chinaware, hotel..... 5	
Brushes, paint and varnish... 43-28		Clay sewer pipe and fittings.....10¢. 211-45	
Buffing wheels, full disk.... 115-30		Cloth, cotton jersey, and tub- ing for work gloves..... 194-42	
Building units, concrete..... 32-38		Cloth, screen, wire, insect... 122-31	
Burs, excavating, dental..... 195-46		Cloth window shades..... 199-43	
Cans, fruit & vegetable (names, dimensions, capacities and designated use).....155-40		Clothespins, spring and slot- ted (sizes and packaging).... 188-42	
Cans, milk (fluid).....208-46		Coal, high volatile, sizes and terminology (Miscellaneous Publication.-See Page 9)	
Cans, tinne-steel, ice cream...164-36		Coffee boxes, folding, 1-lb... 64-30	
Canton flannels, cotton (un- bleached) for work gloves... 186-44		Color code for marking steel bars..... 166-37	
Caps, milk-bottle; paper tubes for packaging of..... 218-46		Color marking for anesthetic gas cylinders..... 176-41	
Caps, paper, (for) ice-cream cups..... 132-36		Color for school furniture.... 111-30	
Carbon-brush terminals (electric) for motors and generators 210-45		Compressors, air, for auto- motive service stations and garages..... 202-43	
Guide chart for (Miscellan- eous Publication - See Page 9)		Concrete building units..... 32-38	
Cartons, ice cream; and ice- cream brick molds..... 120-40		Conductors, copper (for building purposes)..... 180-41	
Cartridges, metallic..... 62-48		Cones and tubes (paper) for textile winding..... 143-39	
Cases, flashlight, metal and non-conducting..... 68-41		Cones, warp and knitting yarn; basic dimensions for; and hole sizes for bobbins for filling cop winders..... 152-34	
Chain, welded.....10¢. 100-47		Containers and lids, paper; for foods and beverages (heavy duty, round, nesting type)..... 175-40	
Chairs, wooden; folding and portable..... 80-28		Containers and packages for household insecticides (liquid spray type)..... 203-44	
Chalks, crayons, and related art materials for school use (types, sizes, packaging and colors)..... 192-45		Containers (cans), fruit and vegetable (names, dimensions, capacities, and designated use)..... 155-40	
Chasers for self-opening and adjustable die heads....10¢. 51-29		Containers (cans), tinne- steel, for ice-cream..... 164-36	
Checks, bank; and notes, drafts, and similar instruments..... 50		Containers, extracted honey... 156-41	
Checks, guest, restaurant... 113-30		Containers, glass, for cottage cheese and sour cream...10¢. 148-47	
Cheese, cottage; and sour cream; containers (glass) for.....10¢. 148-47		Containers, glass; for green olives..... 196-42	
Cherries, maraschino; containers (glass) for..... 197-46		Containers, glass; for maraschino cherries..... 197-46	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. The text suggests that organizations should implement robust systems to track every aspect of their operations, from procurement to sales.

2. The second section addresses the challenges faced by organizations in managing their resources effectively. It highlights the need for strategic planning and the allocation of resources based on long-term goals. The author argues that without a clear vision and a well-defined strategy, organizations risk inefficiency and failure. This section also touches upon the importance of monitoring and evaluating the progress of various initiatives to ensure they remain on track.

3. The third part of the document focuses on the role of leadership in driving organizational success. It discusses the qualities and skills that effective leaders possess, such as vision, communication, and decision-making abilities. The text provides insights into how leaders can inspire their teams, foster a positive work environment, and navigate complex challenges. It also mentions the importance of staying updated with industry trends and adapting to changes in the market.

4. The fourth section explores the significance of innovation and research and development (R&D) in maintaining a competitive edge. It states that organizations must invest in R&D to develop new products, services, and processes that meet the evolving needs of the market. The text encourages a culture of innovation where employees are encouraged to think creatively and propose new ideas. It also discusses the importance of protecting intellectual property and collaborating with external partners to accelerate innovation.

5. The fifth part of the document discusses the importance of financial management and budgeting. It emphasizes that organizations must maintain a clear understanding of their financial health, including revenue, expenses, and cash flow. The text suggests that organizations should create realistic budgets and stick to them, while also being prepared to make adjustments as needed. It also mentions the importance of seeking professional advice when needed to ensure sound financial practices.

6. The sixth section addresses the topic of human resources management. It discusses the importance of attracting, developing, and retaining top talent. The text suggests that organizations should focus on creating a positive work environment, offering competitive compensation and benefits, and providing opportunities for professional growth. It also mentions the importance of effective communication and collaboration within the organization to ensure that everyone is working towards the same goals.

7. The seventh part of the document discusses the importance of risk management. It states that organizations must identify potential risks and develop strategies to mitigate them. The text suggests that organizations should conduct regular risk assessments and have contingency plans in place to handle unexpected events. It also mentions the importance of staying informed about industry risks and regulatory changes to ensure compliance and avoid legal issues.

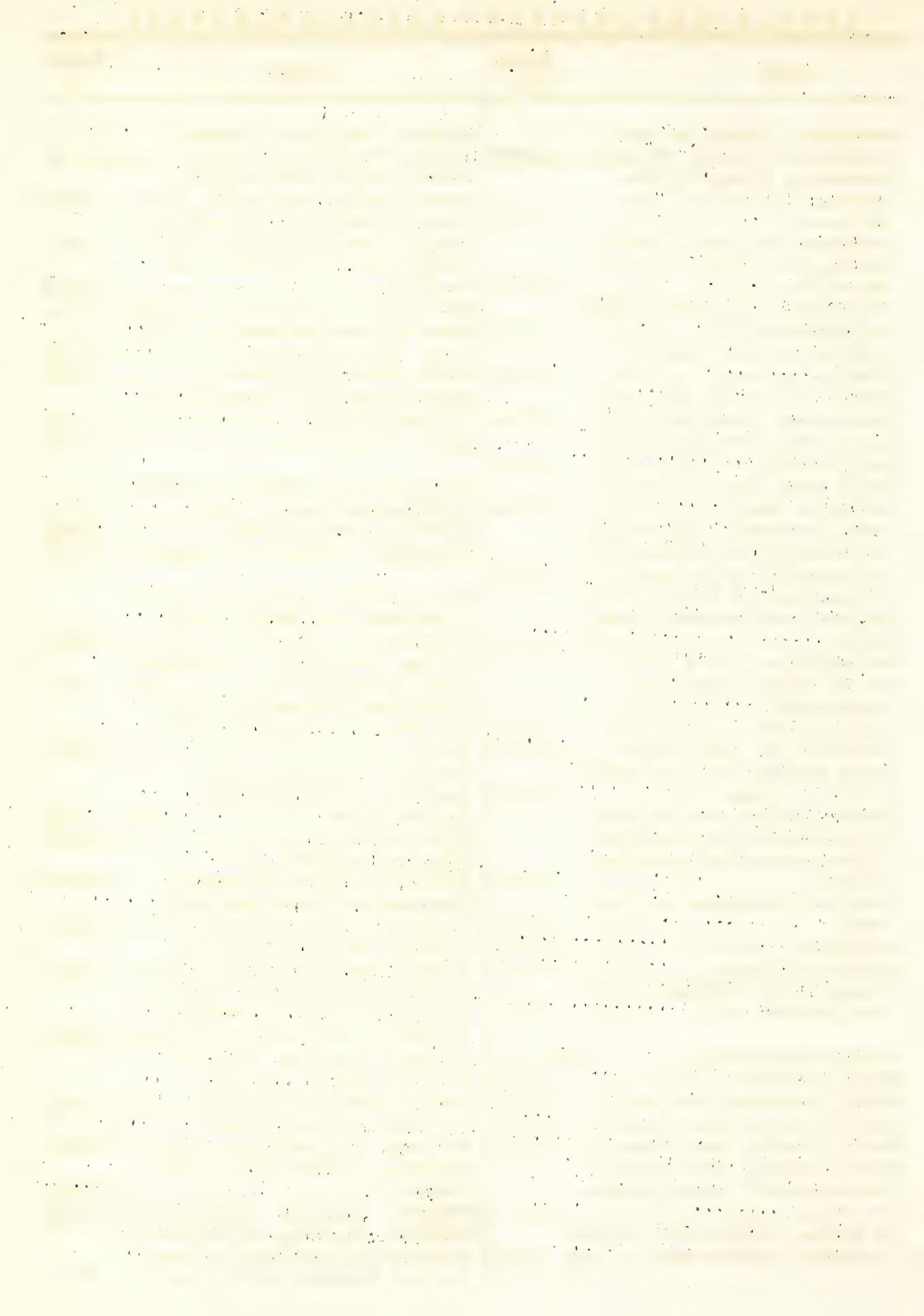
8. The eighth section discusses the importance of customer relationship management (CRM). It emphasizes that organizations must focus on understanding their customers' needs and preferences to provide better service and build loyalty. The text suggests that organizations should invest in CRM systems and implement strategies to engage customers at every touchpoint. It also mentions the importance of gathering customer feedback and using it to improve products and services.

9. The ninth part of the document discusses the importance of sustainability and corporate social responsibility (CSR). It states that organizations have a responsibility to their stakeholders beyond just providing products and services. The text suggests that organizations should adopt sustainable practices, such as reducing carbon footprint and promoting social equality. It also mentions the importance of transparent reporting on CSR activities to build trust with stakeholders.

10. The final section of the document provides a conclusion and summarizes the key points discussed. It reiterates the importance of a holistic approach to management, where all aspects of the organization are aligned towards achieving its mission and vision. The text encourages organizations to embrace change, foster innovation, and maintain a strong focus on their core values to ensure long-term success.

SIMPLIFIED PRACTICE RECOMMENDATIONS

TITLE	S.P.R. No.	TITLE	S.P.R. No.
Containers, Glass, for may- onnaise and kindred products..R131-35		Dishes, food.(made of waxed paper, wood pulp or wood).....R187-42	
Containers, glass, for pre- serves, jellies and apple butter..... 91-32		Doors, Hollow metal single- acting, swing; frames and trim... 82-28	
Containers for paints, var- nishes, and related products; and colors..... 144-45		Doors, Kalamein; single-acting, swing; frames and trim..... 83-28	
Containers; for peanut butter; and packaging of..... 209-45		Doubletrees, singletrees, and neckyokes..... 134-32	
Containers, spice (tin and fiber)..... 170-38		Dressings, surgical.....10¢. 133-47	
Cooking oil, salad oil, and shortening, (packages for)....193-42		Dressings and treatments, first aid; unit packaging..... 178-41	
Copper conductors for build- ing purposes.....180-41		Drums, steel; and barrels..... 20-28	
Copper water tube and copper and brass pipe.....217-46		Dry-cleaning and garment boxes, folding, stock..... 172-38	
Corrugated-board, single-faced (in rolls), (for Department and specialty store use).....177-41		Duck, cotton..... 27-36	
Corrugated-fiber boxes (for De- partment and Specialty store use).....128-41		Eaves trough, conductor pipe, and fittings, and ridge rolls..... 29-42	
Corrugated and solid fiber box- es for canned fruits and vegetables.....146-41		Excavating burs, dental..... 195-46	
Cotton canton flannels (un- bleached) for work gloves.....186-44		Extractors, commercial laundry.... 139-32	
Cotton jersey cloth and tubing for work gloves.....194-42		Felt products, asphalt and tar- saturated; and asphalt roll roofing..... 213-45	
Crayons, chalks, and related art materials for school use (types, sizes, packaging, and colors).....192-45		Fencing, woven-wire; and barbed wire, galvanized.....10¢. 9-47	
Cups; for ice-cream; and cup caps.....132-36		Fiber boxes, corrugated (for Department and Specialty store use)..... 128-41	
Curbstone, granite.....102-33		Files and rasps (American pattern, and curved-tooth milled files.....10¢. 6-47	
Cutters, milling.....*36-34		Files, Swiss-pattern..... 206-44	
Cylinders for anesthetic gas; color marking of.....176-41		Film, photographic, for miniature copies of records..... 165-36	
Dental brush wheels.....10¢.116-30		First-aid unit dressings and treatments (packaging of)..... 178-41	
Dental excavating burs.....195-46		Fittings, eaves trough, con- ductor pipe, and ridge rolls.... 29-42	
Dental hypodermic needles.....108-44		Fittings, pipe (grey cast iron, malleable iron, and brass or bronze)..... 10¢..185-47	
Dental lathe grinding wheels....130-32		Fittings, pipes and ducts for warm-air heating and air- conditioning.....10¢. 207-45	
Dental mirrors, cone socket.....137-32		Fittings, plumbing fixture; and trim for housing..... 227-47	
Dental plaster, investment, and artificial stone; packag- ing of.....117-30		Fittings, solder-joint, cast brass..... 212-45	
Die heads, self-opening and ad- justable; chasers for.....10¢. 51-29		Fixtures plumbing, hospital..... 106-41	
		Fixtures plumbing, staple vit- reous china (included in Com- mercial Standard CS20-47)..... 52	



TITLE	S.P.R. No.	TITLE	S.P.R. No.
Flannels, cotton canton, (un-bleached for work gloves... R186-44		Gravel, slag, and stone, crushed (coarse aggregates).....R163-39	
Flashlight cases, metal and non-conducting..... 68-41		Grinding wheels..... 15¢. 45-47	
Flat veneer products (spoons, forks, etc.)..... 230-48		Grinding wheels, dental lathe..... 130-32	
Flatware, silver, sterling.. 54		Grocers' paper bags..... 42-43	
Food and beverage containers and lids, paper (heavy duty, round, nesting type)..... 175-40		Groceries and packaged merchandise; pallets for handling 228-47	
Food service equipment..... 182-41		Hack-saw blades.....10¢. 90-46	
Food trays, or dishes, (waxed paper, molded wood, pulp and wood types)..... 187-42		Hammers, forged..... *159-42	
Forms, bank (checks, notes, drafts, and similar instruments)..... 50		Handles, ash..... 76-40	
Forms, commercial (invoice, purchase order, and inquiry)..... 10¢. 37-38		Handles, Hickory..... 77-45	
Forms for concrete joist construction floors..... 87-32		Hardware, Builders (nontemplate) (Standards set forth in Commercial Standard CS22-40)... 18	
Forms, warehouse.....10¢. 34		Hatchets, forged.....*160-42	
Frames and trim, for hollow metal single-acting swing doors..... 82-28		Heating (warm air) and air conditioning; pipes, ducts, and fittings for.....10c. 207-45	
Frames and trim for Kalamein single acting swing doors.... 83-28		Hot-rolled carbon steel bars and bar size shapes.....10¢. 222-46	
Fruit and vegetable cans, (names, dimensions, capacities and designated use)..... 155-40		Hot-rolled carbon steel structural shapes.....10¢. 216-46	
Fungicides and insecticides, agricultural, (packages)..... 41-42		Hypodermic needles, dental..... 108-44	
Furniture, school; color for.. 111-30		Hypodermic needles, medical and surgical (for hospital use)..... 224-47	
Furniture; school tables..... 191-43			
Galvanized ware, standard grade..... 226-47		Ice compartments, for refrigerators.....10¢. 109-29	
Galvanized ware, Tinware, and japanned ware..... *55		Ice cake sizes..... 96-28	
Galvanized woven-wire fencing and barbed wire.....10¢.. 9-47		Ice cream cans, tinned steel... 164-36	
Garment and dry-cleaning boxes, folding, stock.....172-38		Ice cream cartons and brick molds..... 120-40	
Gas cylinders for anesthetic gas, color marking of..... 176-41		Ice cream cups, and caps for (paper)..... 132-36	
Gauze, surgical..... 86-47		Insecticides and fungicides, agricultural (packages)..... 41-42	
Gloves, work, cotton jersey cloth and tubing for..... 194-42		Insecticides, household, (liquid spray type), containers and packages for..... 203-44	
Gloves, work; unbleached cotton canton flannel for.... 186-44		Insulators, Porcelain, one-piece..... *73	
Goring, shoe, elastic..... 112-29		Insulating board, structural (wood or other vegetable fiber) 179-46	
		Investment, plaster, and artificial stone; dental, packaging of..... 117-30	
		Invoice, purchase order and inquiry forms (paper).....10¢. 37-38	

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be carefully documented to ensure the integrity of the financial data. This includes recording dates, amounts, and the nature of the transactions.

Secondly, the document highlights the need for regular reconciliation of accounts. By comparing internal records with external statements, discrepancies can be identified and corrected promptly. This process helps in maintaining the accuracy of the books and prevents errors from accumulating over time.

Thirdly, the document stresses the importance of proper classification of expenses. Each transaction should be categorized correctly to facilitate accurate reporting and analysis. This involves understanding the different types of expenses and their impact on the overall financial position.

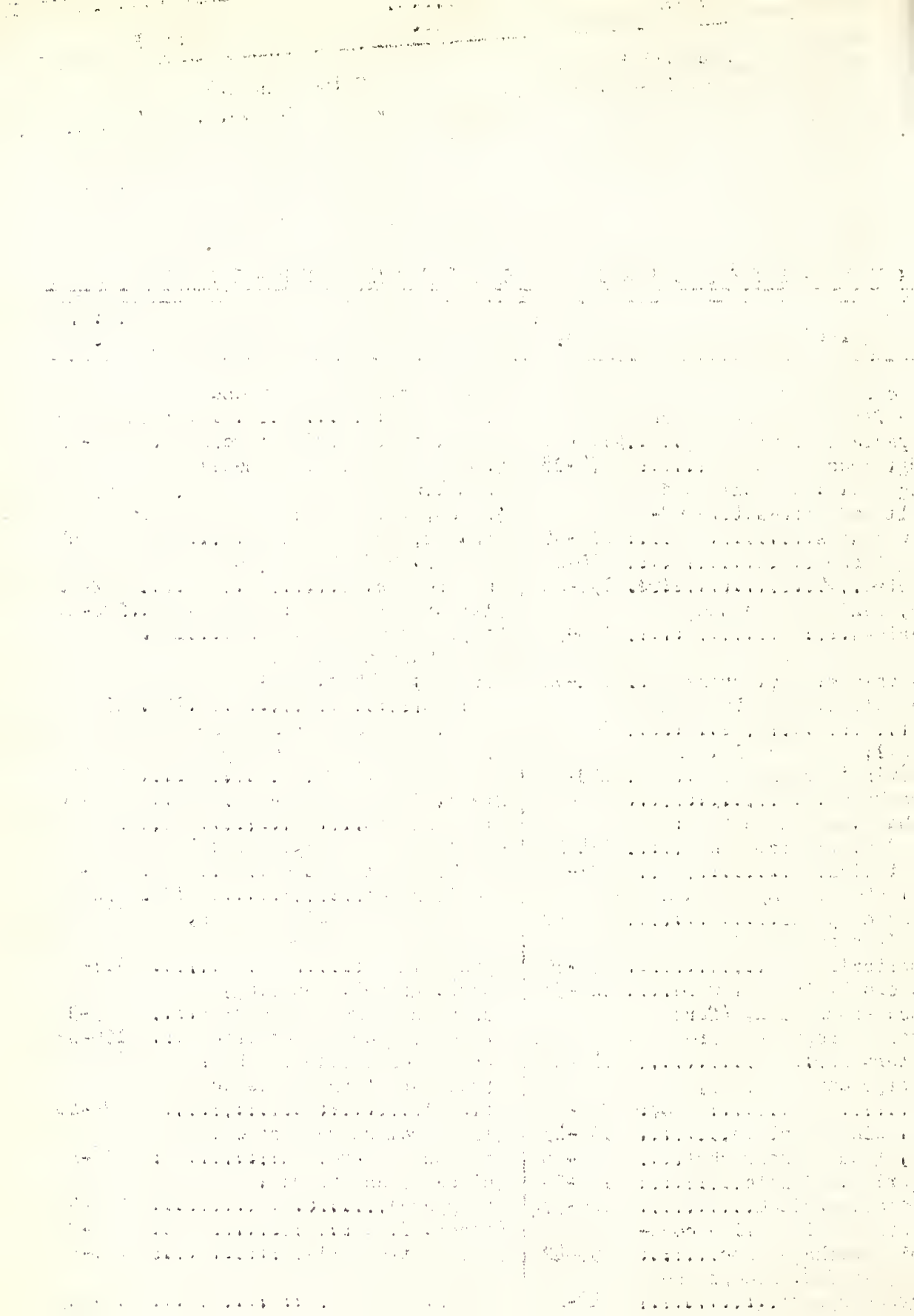
Finally, the document concludes by stating that consistent adherence to these principles is essential for the success of any financial management system. It encourages a disciplined approach to record-keeping and reconciliation to ensure the reliability of the financial information.

S I M P L I F I E D P R A C T I C E R E C O M M E N D A T I O N S

TITLE	S.P.R. No.	T I T L E	S.P.R. No.
Iron body valves (gate, globe, angle and check).....	R184-47	Milk cans (for fluid milk).....	R208-46
Iron, steel and bronze relief valves; bronze pop safety valves.....	204-44	Millboard, asbestos, and asbestos paper.....	19-37
Iron and steel scrap, classification of.....	58-36	Millinery boxes, folding, stock..	173-38
Ironers, flatwork, commercial laundry.....	140-32	Millinery and notion bags, (paper) (for Department and Specialty store use).....	129-41
Jacks, screw, bell-bottom....	97-47	Mirrors, dental, cone-socket....	137-32
Japanned ware, tinware, and galvanized ware.....	*55	Molds, brick, ice-cream; and ice-cream cartons.....	120-40
Jellies, preserves, and apple butter; containers (glass) for.....	91-32	Nails and staples, wire.....	10¢. 223-47
Jersey cloth and tubing, cotton; for work gloves.....	194-42	Nails, cut, small; and cut tacks.....	10¢. 47-28
Joists, steel, open-web.....	94-30	Nails, wire, copper.....	150-34
Knives, pocket.....	10¢. 99-30	Neckyokes, singletrees, and doubletrees.....	134-32
Laces, shoe, braided.....	168-37	Needles, hypodermic, dental....	108-44
Lath, metal (expanded and sheet), and metal plastering accessories.....	3-44	Needles, hypodermic; medical and surgical (for hospital use).....	224-47
Laundry extractors, commercial.	139-32	Non-ferrous range boilers.....	181-41
Laundry flatwork ironers, commercial.....	140-32	Oil, cooking and salad; and shortening; packages for.....	193-42
Laundry tumblers, commercial.	141-32	Olives, green; containers (glass) for.....	196-42
Laundry washers, commercial..	142-32	Open-end and box wrenches.....	220-46
Lavatory and sink traps.....	21-46	Packages, agricultural insecticide and fungicide.....	41-42
Lights; sidewalk, floor, and roof.....	49	Packages and containers for household insecticides (liquid spray type).....	203-44
Lining, brake, automobile....	*66	Packages, extracted honey.....	156-41
Lockers, steel.....	35-44	Packages, salt.....	70-46
Luggage (trunks and suitcases).	215-46	Packages, shortening, salad oil and cooking oil.....	193-42
Lumber, softwood (includes shingles and mouldings)..	20¢. 16-39	Packaging of air brake (electric railway) parts.....	162-35
Lumber, rotary-cut; stock for wire-bound boxes...	59	Packaging of automotive (bus) engine parts.....	161-35
Mattresses, bedsteads, and springs.....	2-32	Packaging of bolts; carriage, machine and lag.....	60-43
Medical and surgical hypodermic needles (for hospital use).....	224-47	Packaging of clothespins, spring and slotted; and sizes.....	188-42
Metal and nonconducting flashlight cases	68-41	Packaging of crayons, chalks and related art materials for school use.(also types, sizes, and colors).....	192-45
Metal-cutting band saws (hard edge, flexible back)..	214-45	Packaging of dental plaster, investment and artificial stone.....	117-30
Metal partitions for toilets and showers.....	101-40		

TITLE	S.P.R. No.	TITLE	S.P.R. No.
Packaging of electric railway motor and controller parts...R145-33		Pipe and fittings; sewer, clay..... 10¢. R211-45	
Packaging of first-aid unit dressings and treatments..... 178-41		Pipe, stove; and accessories.. 190-42	
Packaging of flashlight batteries..... 104-30		Pipe, wrought-iron and wrought-steel; and valves and fittings..... 57-32	
Packaging of overhead electric railway material..... 65-31		Pipes, ducts, and fittings for warm-air heating and air conditioning.....10¢. 207-45	
Packaging of peanut butter, and containers for..... 209-45		Plaster, adhesive..... 85-47	
Packaging of razor blades..... 69		Plaster, investment, and artificial stone, dental; packaging of..... 117-30	
Packaging of toothpicks; and sizes and types.....*189-42		Plastering accessories, metal, and metal lath..... 3-44	
Paint and varnish brushes..... 43-28		Platforms, skid..... 95-30	
Paints, varnishes, and related products (colors and containers)..... 144-45		Plumbing fixture fittings and trim for housing..... 227-47	
Pallets for handling groceries and packaged merchandise. 228-47		Plumbing fixtures, hospital... 106-41	
Paper, asbestos; and asbestos millboard..... 19-37		Pop safety valves, bronze..... 204-44	
Paper bags, grocers'..... 42-43		Pop safety valves, iron and steel..... 201-43	
Paper bags, for notions and millinery (for Department and Specialty store use)..... 129-41		Preserves, jellies, and apple butter; containers (glass) for..... 91-32	
Paper, basic sheet sizes for.. 22-40		Purchase order, invoice and inquiry forms, paper (commercial).....10¢. 37-38	
Paper boxes, folding (for Department and Specialty store use)..... 127-41		Radiators, cast-iron..... 174-47	
Paper boxes, set-up (for Department and Specialty store use)..... 126-41		Range boilers; non-ferrous.... 181-41	
Paper boxes for toiletries and cosmetics..... 200-43		Range boilers and expansion and solar tanks; ferrous..... 8-47	
Paper, photographic..... 98-43		Rasps and files (American pattern, and curved-tooth milled files).....10¢. 6-47	
Paper, tissue..... 46-39		Refractories, cupola.....10¢. 154-38	
Paper, tissue; waxed..... 125-31		Refractories, malleable foundry.....10¢. 79-28	
Paper tubes for packaging milk-bottle caps..... 218-46		Refrigerator ice compartments, sizes.....10¢. 109-29	
Partitions, metal; for Toilets and showers..... 101-40		Relief valves, bronze, iron and steel..... 204-44	
Peanut butter packages and containers..... 209-45		Relief valves, iron and steel (for petroleum, chemical and general industrial services)..... 205-44	
Peas, canned; sieve (screen) sizes of..... 149-33		Restaurant guest checks..... 113-30	
Pipe, brass and copper; and tube, water; copper..... 217-46		Ridge rolls, eaves trough, conductor pipe, and fittings..... 29-42	
Pipe, conductor; eaves trough, and fittings, and ridge rolls..... 29-42		Rivets, steel..... 221-46	
Pipe fittings, (grey cast iron, malleable iron and brass or bronze).....10¢. 185-47			

TITLE	S.P.R. No.	TITLE	S.P.R. No.
Rolls, corrugated-board, single faced (for Department and Specialty store use).....	R177-41	Spice containers (tin and fiber).....	R170-38
Roofing, iron and steel.....	78-28	Spirals, steel, reinforcing....	53-32
Roofing, roll, asphalt; and asphalt- and tar-saturated- felt products.....	213-45	Spools, metal; for annealing, handling, and shipping wire....	63
Roofing ternes.....	30-42	Spoons, telegraph; shovels, spades, and scoops.....	48-42
Rope, wire.....	10¢. 198-43	Springs, bedsteads, and mattresses.....	2-32
Rubber, dental (base and veneering).....	138-32	Standard grade galvanized ware..	226-47
Safety valves, pop; bronze....	204-44	Staples and nails, wire....	10¢. 223-47
Safety valves, pop; iron and steel.....	201-43	Steel bars and bar-size shapes; carbon, hot- rolled.....	10¢. 222-46
Salad oil, cooking oil, and shortening; packages for.....	193-42	Steel, iron and bronze re- lief valves; bronze pop safety valves.....	204-44
Salt packages.....	70-46	Steel, joists, open-web.....	94-30
Saws, band, metal-cutting; hard edge, flexible back....	214-45	Steel rivets.....	221-46
School tables.....	191-43	Steel shapes; structural; carbon, hot-rolled.....	10¢. 216-46
Scoops, shovels, spades and telegraph spoons.....	48-42	Steel, sheet.....	10¢. 28-29
Scrap, iron and steel; classification of.....	58-36	Stone, artificial; plaster, and investment, dental; packaging of.....	117-30
Screen cloth, insect, wire....	122-31	Stone, gravel, and slag, crushed (coarse aggregates)...	163-39
Screens, Production, (for) mineral aggregates; wire diameters for.....	147-42	Stove pipe and accessories....	190-42
Sewer pipe and fittings, clay.....	10¢. 211-45	Structural insulating board (wood or other vegetable fiber).....	179-46
Shades, window; cloth.....	199-43	Structural shapes; steel, carbon, hot-rolled.....	10¢. 216-46
Shells, Loaded paper shot....	31-48	Suitcases and trunks, (luggage).....	215-46
Shoe goring, elastic.....	112-29	Sweeps, floor.....	88-37
Shoe laces, braided.....	168-37	Swiss pattern files.....	206-44
Shortening, salad oil & cook- ing oil, packages for.....	193-42	Tables, school.....	191-43
Shovels, spades, scoops and telegraph spoons.....	48-42	Tacks, cut, and small cut nails.....	10¢. 47-28
Shunts, brush; and brushes, carbon, graphite and metal-graphite.....	*56-35	Tags, shipping, paper.....	93-39
Sieve (screen) sizes of canned peas.....	149-33	Tanks, expansion and solar; and range boilers, ferrous...	8-47
Singletrees, doubletrees, and neckyokes.....	134-32	Tanks, storage, hot water....	*25
Skid platforms.....	95-30	Tape, sealing; paper, No. 1 kraft.....	10¢. 114-30
Slag, gravel, and stone, crushed--coarse aggregates..	163-39	Telegraph spoons, shovels, spades and scoops.....	48-42
Slate, blackboard.....	15-35	Terminals, carbon-brush, electric, for motors and generators.....	210-45
Slate, roofing.....	*14-28	Ternes, roofing.....	30-42
Slate, structural.....	10¢. 13-28		
Spades, shovels, scoops and telegraph spoons.....	48-42		



TITLE	S.P.R.. No.	TITLE	S.P.R.. No.
Textiles, cotton, hospital and institutional.....R 74-30		Twine, cotton, polished.....R124-31	
Tile, asphalt..... 225-47		Twine, flax and hemp..... 136-32	
Tile, Building, hollow..... 12		Twine, soft-fiber (jute)...10¢. 110-29	
Tiles, clay; for floors and walls.....10¢. 61-44		Twine, hard-fiber; and lath yarn (ply & yarn goods)..... 92-38	
Tinware, galvanized, and Japanned ware..... *55		Valves, brass or bronze (gate, globe, angle & check)..... 183-46	
Tires, solid; industrial truck and trailer..... 103-33		Valves, iron (gate, globe, angle and check)..... 184-47	
Tissue paper..... 46-39		Valves, pop, safety; bronze..... 204-44	
Tissue paper, waxed..... 125-31		Valves, pop, safety; iron and steel..... 201-43	
Tools, forged, hand, heavy.....10¢. 17-47		Valves, regulating, automatic... 219-46	
Toothpicks (types, sizes and packaging).....*189-42		Valves, relief; bronze, iron and steel..... 204-44	
Towels, terry, fast selvage... 119-31		Valves, relief; iron and steel (for petroleum, chemical and general industrial services).. 205-44	
Traps, lavatory and sink..... 21-46		Varnishes, paints, & related products (colors & containers).144-45	
Trays, food (made of waxed paper, wood pulp or wood).... 187-42		Veneer products, flat (spoons, forks, etc).....?, 230-48	
Trim and frames, for hollow metal single-acting swing doors..... 82-28		Vises (machinists' and re- lated kinds).....?...229-48	
Trim and frames, for kalamein single-acting swing doors.... 83-28			
Trough, eaves; conductor pipe, and fittings; and ridge rolls..... 29-42		Warehouse paper-forms.....10¢. 34	
Truck and trailer tires (solid) industrial..... 103-33		Washers, commercial laundry.... 142-32	
Trunks & suitcases (luggage).. 215-46		Waxed tissue paper..... 125-31	
Tube, water, copper; and pipe, brass and copper..... 217-46		Welded chain.....10¢. 100-47	
Tubes, paper; and cones; for textile winding..... 143-39		Wheelbarrows..... 105-32	
Tubes, paper, for packaging milk-bottle caps..... 218-46		Wheels, brush, dental.....10¢. 116-30	
Tubes, taper, for filling cop winders; hole sizes for.... 153-34		Wheels, buffing, full disk..... 115-30	
Tubing and jersey cloth; cotton; for work gloves..... 194-42		Wheels, grinding.....15¢. 45-47	
Tubs, butter, wooden..... 135-32		Wheels, grinding, dental lathe. 130-32	
Tumblers, commercial laundry. 141-32		Window shades, cloth..... 199-43	
Turnbuckles..... 71-28		Windows, steel, solid section 20¢. 72	
		Wire fencing, woven, and barbed wire; galvanized.....10¢.. 9-47	
		Wire nails and staples.....10¢. 223-47	
		Wire rope.....10¢. 198-43	
		Wire (diameters) for mineral aggregate production screens.. 147-42	
		Wrenches, open-end and box..... 220-46	
		Yarn, lath; & twine, hard-fiber (ply and yarn goods)..... 92-38	

MISCELLANEOUS PUBLICATIONS

TITLE	No.
Simplification of sizes and terminology of high volatile bituminous coal (1929).....	M113
Guide-chart for carbon-brush terminals (electric).....	M180

